



METHOD OF MANUFACTURING SOLID OXIDE FUEL CELL MODULE

ABSTRACT

There is provided a method of manufacturing a solid oxide fuel cell module containing a plurality of cells each made up of a fuel electrode, an electrolyte, and an air electrode sequentially formed on a surface of a substrate with an internal fuel flow part provided therein. At least a face of the substrate in contact with the cells is insulating, and interconnectors and the cells adjacent to each other are electrically connected in series through the intermediary of the respective interconnectors. The A method of manufacturing the a solid oxide fuel cell module involves the steps of co-sintering the respective fuel electrodes, and the respective electrolytes, subsequently forming a dense interconnector out of a dense interconnector material, or an interconnector material which turns dense by sintering in at least parts of the solid oxide fuel cell module, in contact with the respective fuel electrodes, and the respective electrolyte, and forming an air electrode on the respective electrolytes before electrically connecting the air electrode respective electrodes with the respective dense first parts of the interconnectors electrically connecting the respective electrodes with the respective first parts of the respective interconnectors via respective second parts of the interconnectors which have a density less than the respective first parts.